Sequences

Identify each of the following sequences as arithmetic or geometric. Then write the equation that gives the terms of the sequence.

9. $48, 24, 12, 6, 3, \ldots$ 10. $-4, 3, 10, 17, 24, \ldots$ 11. $43, 39, 35, 31, 27, \ldots$

12. $\frac{2}{3}, \frac{1}{2}, \frac{3}{8}, \frac{9}{32}, \frac{27}{128}, \ldots$ 13. $5, -5, 5, -5, 5, \ldots$ 14. $10, 1, 0.1, 0.01, 0.001, \ldots$

For each arithmetic sequence, find an explicit and a recursive formula.

33. $4, 8, 12, 16, 20, \ldots$ 34. $-2, 5, 12, 19, 26, \ldots$

35. $27, 15, 3, -9, -21, \ldots$ 36. $3, 3\frac{1}{3}, 3\frac{2}{3}, 4, 4\frac{1}{3}, \ldots$